

STATE OF CALIFORNIA

The Resources Agency

Department of Water Resources

BULLETIN No. 132-75

The California  
State Water Project  
In 1975

APPENDIX D

COSTS  
OF RECREATION AND  
FISH AND WILDLIFE ENHANCEMENT

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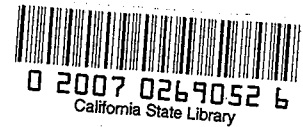
APRIL 1975

CLAIRE T. DEDRICK  
*Secretary for Resources*  
The Resources Agency

EDMUND G. BROWN JR.  
*Governor*  
State of California

RONALD B. ROBIE  
*Director*  
Department of Water Resources





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### APPENDIX D

## COSTS OF RECREATION AND FISH AND WILDLIFE ENHANCEMENT

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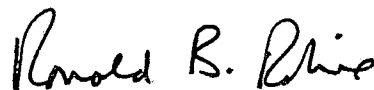
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## FOREWORD

The Davis-Dolwig Act (Sections 11900-11925 of the California Water Code) declares that recreation and fish and wildlife enhancement costs of state water projects benefit all of the people of California and are to be borne by them. The Act also provides a procedure through which the Department of Water Resources will be reimbursed for those recreation and fish and wildlife enhancement expenditures that are financed by project funds. The Department is to annually report such expenditures to the Legislature. If the Legislature approves the reported costs, a like amount of the State's tideland gas and oil revenues will be released to the Department from a continuing \$5,000,000 annual appropriation of tideland revenues which has been authorized specifically for that purpose (California Statutes of 1964, First Extraordinary Session, Chapter 138, as amended by California Statutes of 1966, First Extraordinary Session, Chapter 27).

This constitutes the Department's 1975 report to the Legislature in compliance with the above requirement. An additional \$1,469,011 for recreation and fish and wildlife enhancement is reported herein; most of which is due to costs incurred in 1974 and interest accrued during 1974 on recreation costs not yet reimbursed by the continuing annual appropriation. The Department requests that the additional amount be approved.



Ronald B. Robie, Director  
Department of Water Resources  
The Resources Agency  
State of California

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The Resources Agency  
DEPARTMENT OF WATER RESOURCES

EDMUND G. BROWN JR., Governor  
CLAIRE T. DEDRICK, Secretary for Resources  
RONALD B. ROBIE, Director  
ROBIN R. REYNOLDS, Acting Deputy Director

DIVISION OF RESOURCES DEVELOPMENT  
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Chief, Division of Land and Right of Way and Peter D. Mysing, Comptroller  
Chester M. Winn, Chief, Contractor Accounting Office

## REPORTING OF RECREATION AND FISH AND WILDLIFE ENHANCEMENT COSTS

Section 11912 of the California Water Code assigns to the Department of Water Resources the following responsibilities:

*It shall be the duty of the Department to report annually to the Legislature the costs, if any, which the department has allocated to recreation and fish and wildlife enhancement for each facility of any state water project. The department shall also report to the Legislature any revisions which the Department makes in such allocations.*

*The department shall submit each such cost allocation to the Department of Navigation and Ocean Development, to the Department of Parks and Recreation, and to the Department of Fish and Game. The Department of Navigation and Ocean Development, the Department of Parks and Recreation, and the Department of Fish and Game shall file with the Department of Water Resources their written comments with respect to each such cost allocation, which written comments shall be included in the report required by this section.*

*It shall also be the duty of the department to report to the Legislature on any expenditure of funds for acquiring rights-of-way, easements and property pursuant to Section 346 for recreation development associated with such facilities....*

This appendix constitutes the Department's 1975 report as required by Section 11912.

For brevity, "fish and wildlife enhancement" is hereafter referred to as "enhancement". The Department's cost allocations treat recreation and enhancement as one combined purpose of the State Water Project.

### Organization of Report

The costs of State Water Project facilities which the Department has allocated to recreation and enhancement through December 31, 1974, are shown in Table 1, pages 8 and 9, together with expenditures for acquiring rights-of-way, easements, and property for recreation development associated with such facilities.

The notes to Table 1, which immediately follow on pages 4 through 7, contain an explanation of the Department's procedures for reporting recreation and enhancement costs, a description of how the amounts shown in the Table are calculated, and a reconciliation of significant changes from costs shown in previous reports. Following Table 1, on pages 10 and 11, is a detailed calculation of accrued interest charges that are included in the costs reported herein.

The costs shown in Table 1 do not reflect new or revised allocations for any facility of the State Water Project. The derivation of allocation percentages indicated for joint capital costs of those multiple-purpose facilities listed in the upper portion of the Table have been described in previous reports. Copies of those descriptions are available on request to the Department.

A summary of allocation percentages is shown on page 12, including illustrative allocation percentages for facilities which have not been reported.

Included on pages 14 through 16, at the end of this report, are comments by the Department of Navigation and Ocean Development, the Department of Parks and Recreation, and the Department of Fish and Game.

Notes to Table 1, Pages 8 and 9

a) Recreation and enhancement costs herein refer only to those capital costs of multiple-purpose facilities of the State Water Project that are allocated to recreation and enhancement and/or of lands that are acquired for associated recreation development. These costs are budgeted by the Department of Water Resources from funds that are available to the

Department for financing construction costs of the Project.

The remaining recreation and enhancement costs of types not reported herein are budgeted by several state departments and are financed by appropriations from a variety of funds. These costs and appropriations are summarized below:

		General Fund Appropriations, unless otherwise noted		
Type of Recreation and Enhancement:		:	:	Total
Costs Not Reported in Table 1	1975-76 <sup>(a)</sup>	:	1974-75 <sup>(b)</sup>	1962-63 thru
		:		1975-76 <sup>(c)</sup>
<hr/>				
Allocated operation, maintenance, and replacement costs of multiple-purpose facilities	\$ 1,607,000	\$ 1,624,000	\$ 6,884,000	
Capital costs of recreation developments other than for land acquisition	\$ 2,150,000 <sup>(d)</sup>	\$13,460,000 <sup>(d)</sup>	\$69,045,000 <sup>(e)</sup>	
Operation, maintenance, and replacement costs of recreation developments	\$ 2,764,000	\$ 2,389,000	\$ 9,355,000	
<hr/>				
<div style="display: flex; justify-content: space-between;"> <div> <p>a) <i>Proposed amounts in Governor's budget.</i></p> <p>b) <i>1974-75 budgeted amount.</i></p> <p>c) <i>Actual thru 1973-74 plus a) and b).</i></p> <p>d) <i>Total amounts are from the Recreation and Fish and Wildlife Enhancement Fund.</i></p> </div> <div> <p>e) <i>Includes \$1,236,000 from the Harbors and Watercraft Revolving Fund, \$200,000 directly from the Highway Users Tax Fund, and \$50,506,000 from the Recreation and Fish and Wildlife Enhancement Fund.</i></p> </div> </div>				

Allocated operation, maintenance, and replacement costs of multiple-purpose facilities are budgeted by the Department of Water Resources and have been financed by annual appropriations from the General Fund. Capital costs (other than land acquisition costs) and operation, maintenance, and replacement costs of recreation developments are budgeted by the Department of Parks and Recreation -- except that the costs of boating facilities are budgeted by the Department of Navigation and Ocean Development. Costs of enhancement developments are budgeted by the Department of Fish and Game.

each multiple-purpose facility, of the percentages of the total joint costs that are attributable to each included purpose. These derivations are based on the application of conventional cost allocation methods which weight the estimated costs to be incurred and benefits to be realized during a 50-year period of analysis. Allocated costs reflect the application of these percentages to the actual capital costs incurred for the facility as accounted by the Department.

b) Joint capital costs allocated to recreation and enhancement are based on the Department's derivation, for

Costs allocated to recreation and enhancement generally are first reported in the year following the year construction of a facility is complete. However, these allocated costs may be subsequently changed

due to either the adjustment of accounted capital costs or the revision of allocation percentages.

recreation benefits and costs, or (2) a change in cost allocation method would produce more equitable results.

The allocation percentages of a facility may be revised if it can be formally demonstrated that such revision is warranted due to substantial changes in the supporting factors to the previous derivation. Such demonstration could include the finding that (1) funds are not forthcoming for financing the costs of planned recreation developments, with resultant decreases in projected

The tentative schedule shown below indicates the times when allocated costs of each State Water Project facility will be first reported and when the factors which support the derivation of allocation percentages will be periodically reviewed for substantial changes. No new or revised allocation percentages are reported herein.

TENTATIVE SCHEDULE FOR REPORTING AND REVIEW  
OF COST ALLOCATIONS

Project Facility	: Year :	Year Supporting Factors											
	: Allocation:	to be Reviewed											
	: to be :	for Substantial Changes											
	: Initially :												
	: Reported :	75:	76:	77:	78:	79:	80:	81:	82:	83:	84:	85:	86: <sup>(a)</sup>
Frenchman Lake	1965				x					x			
Antelope Lake	1966				x					x			
Lake Davis	1968				x					x			
Abbey Bridge Reservoir	1982 <sup>(b)</sup>												
Dixie Refuge Reservoir	1984 <sup>(b)</sup>												
Oroville Division	1971			x						x			
Delta Facilities	1982 <sup>(b)</sup>												x
North Bay Aqueduct	1980												x
South Bay Aqueduct (Lake Del Valle)	1973				x					x			
California Aqueduct, Project Conservation Facilities:	1970												
Bethany Reservoir				x					x				x
San Luis Reservoir				x					x				x
O'Neill Forebay				x					x				x
Los Banos Reservoir				x					x				x
Aqueduct Developments				x					x				x
California Aqueduct, Project Transportation Facilities:	1976												
Pyramid Lake									x				xx
Castaic Lake									x				x
Silverwood Lake									x				x
Lake Perris									x				x
Aqueduct Developments									x				x

a) Reviews would continue in the pattern indicated below.

b) Construction schedule tentative and subject to revision.

a) Reviews would continue in the pattern indicated below.

b) Construction schedule tentative and subject to revision.

c) Specific costs of acquiring land for recreation developments are incurred by the Department under the authority of California Water Code Section 346. The Department purchases recreation lands concurrently with lands needed for multiple-

purpose facilities in order to decrease the total land costs of the Project and to acquire property in an orderly manner. Recreation lands acquired for each project facility through December 31, 1974 are summarized below.

# SUMMARY OF RECREATION LAND ACQUISITIONS<sup>(a)</sup>

(in acres)

Project Facility	:Acquired: : (b)	To be :Acquired:	Federal: Lands(c):	Total
Frenchman Lake	719	0	0	719
Antelope Lake	1,342	0	0	1,342
Lake Davis	733	0	0	733
Abbey Bridge	0	2,663	0	2,663
Oroville Division	2,576	1	212	2,789
Lake Del Valle	1,206	0	0	1,206
San Luis Reservoir and O'Neill Forebay	2,518	0	0	2,518
California Aqueduct (excluding reservoirs)	1,107	97 <sup>(d)</sup>	0	1,204
Castaic Lake	1,915	0	581	2,496
Silverwood Lake	327 <sup>(e)</sup>	0	2,919	3,246
Lake Perris	4,362	116	0	4,478

a) Includes recreation lands for only those project facilities with an established recreation land use and acquisition plan.

b) Costs of acquiring these lands are shown in Table 1.

c) These lands are presently being leased from Federal Government at a nominal cost to the State.

d) Additional land needs are to be identified by future studies.

e) Lands acquired reduced to usable acreage.

The Department reports the annual expenditure of project funds for acquiring all recreation land in the year following the expenditure. The costs of such lands generally are established when acquired and are not affected by allocation percentages for the associated multiple-purpose project facility. However, the reported costs of certain lands may be subsequently revised due to receipt of certain revenues (such as federal grants and miscellaneous income from right-of-way sales) or due to modification of the recreation land use plan.

The amounts to be reported in future years will include credits for any reduction in previously reported costs, together with appropriate interest income thereon. If recreation land is sold or if grants are received ,

the amount of the receipt will be reported as a negative cost of the facility the year received. If recreation land is reclassified as multiple-purpose project land, the original purchase price, together with appropriate interest income thereon, will be reported as a negative expenditure for specific land costs in the year the modification occurs, and an appropriate amount will be added to the joint capital costs allocated to recreation and enhancement for the associated facility.

The costs of acquiring recreation land include the salaries of department personnel who are engaged in recreation land acquisition activities, together with indirect costs that are distributed on the basis of direct salaries.



d) Interest accruals are calculated as shown in Table 2. Interest charges are accrued only on the portion of annual disbursements financed by the California Water Resources Development Bond Fund (proceeds from the sale of Burns-Porter Bonds) and cease when such disbursements, together with cumulative interest accruals thereon, have been reimbursed. Calculations are based on the weighted average interest costs of Burns-Porter Bonds sold to date (4.374 percent for the \$1,550,000,000 in bonds outstanding as of December 31, 1974). This rate differs from the "project interest rate" under the Project's water supply contracts in that interest costs on revenue bond sales are not included.

As of December 31, 1974, a total of \$45,000,000 had been reimbursed to the Department under the continuing annual \$5,000,000 appropriation (thru fiscal year 1974-75) of state tideland oil and gas revenues, authorized by California Statutes of 1966, First Extraordinary Session, Chapter 27. Reimbursement of the increased amount of costs reported herein would cover annual appropriations in the full amounts for 1975-76, 1976-77, and 1977-78, together with \$4,620,747 of the appropriation for 1978-79.

The amounts reported to date do not yet include an allocation to recreation and fish and wildlife enhancement in the Sacramento-San Joaquin Delta. (The tentative schedule on page 6 shows 1982 as the year in which such an allocation will be initially reported.)

e) The Department requests that this total increased amount of reported costs be approved by the Legislature.

f) Costs previously reported are as shown in Table 1 (pages 8 and 9) of Appendix D to Bulletin 132-74. Such costs were approved by California Statutes of 1974, Chapter 536, and

were based on the Department's accounting records as of December 31, 1973. The average interest cost on Burns-Porter Bond sales was then 4.374 percent.

g) Reasons for cost increases are outlined below:

- o Additional disbursements during 1974 for recreation lands and for joint capital costs allocated to recreation and enhancement under allocations previously reported.....\$ 236,000
  - o Additional accrued interest on recreation costs not yet reimbursed by the continuing \$5,000,000 annual appropriation due to an additional year of accrual (1974)....\$ 730,000
  - o Decrease in open-space land grants. In previous reports open-space land grants were estimated at \$971,000. A revised estimate in 1974 reduced the amount to \$753,000, resulting in an increase in land cost.....\$ 218,000
  - o Cost of recreation land at O'Neill Forebay first reported in 1974.....\$ 65,000
  - o Costs of Abbey Bridge Reservoir first reported in 1974. These are departmental costs associated with land acquisition.....\$ 10,000
  - o Net retroactive accounting adjustments on costs reported prior to 1974 for late charges, for credits from land rentals and sales, and a revision to the method for distribution of acquisition costs.....\$ 210,000
- TOTAL INCREASE.....\$1,469,000

**TABLE 1: RECREATION AND ENHANCEMENT**  
(Reported to the California Legislature in  
(in

TYPE OF COSTS, PROJECT FACILITY, AND SOURCE OF FUNDS	DISBURSEMENTS,							
	1952- 1961	1962	1963	1964	1965	1966	1967	1968
<b>JOINT CAPITAL COSTS ALLOCATED TO RECREATION AND ENHANCEMENT: (b)</b>								
<u>Frenchman Dam and Lake (78.5%)</u>								
California Water Resources Development Bond Fund		-586	454	4,639	4,451	16,918	65,092	2,219
All other funds	1,985,398	343,980	99,674	-218	-5	6		516
Subtotal	1,985,398	343,394	100,128	4,421	4,446	16,924	65,092	2,735
<u>Antelope Dam and Lake (100.0%)</u>								
California Water Resources Development Bond Fund		-503	-300	25,824	490,306	259,598	36,676	18,431
All other funds	268,566	779,522	2,634,575	18,831	145	12	151,356	21,504
Subtotal	268,063	779,222	2,660,399	509,137	259,743	36,688	151,358	39,935
<u>Grizzly Valley Dam and Lake Davis (94.9%)</u>								
California Water Resources Development Bond Fund			20,100	484,442	930,749	1,693,753	488,205	173,332
All other funds	32,276	79,170	109,547	-3,394	3,968	35,862	12,395	13,025
Subtotal	32,276	79,170	129,647	481,048	934,717	1,729,615	500,600	186,357
<u>California Aqueduct, Delta to Dos Amigos P.P. (3.5%)</u>								
California Water Resources Development Bond Fund		-5,082	225,133	945,306	1,559,081	1,975,357	1,522,239	247,673
All other funds	198,983	144,549	933,103	279,839	-13,826	54,563	25,282	270,564
Subtotal	193,901	142,975	1,158,236	1,225,145	1,545,255	2,029,920	1,547,521	518,237
<u>Oroville Division (2.9%)</u>								
California Water Resources Development Bond Fund		-135	234	1,151,063	962,834	2,247,465	1,335,208	87,030
All other funds	1,310,777	436,777	1,029,035	-6,214	36,130	18,608	45,148	321,811
Subtotal	1,310,642	437,011	1,058,304	1,144,849	998,964	2,266,073	1,380,356	408,841
<u>Del Valle Dam and Lake Del Valle (48.0%)</u>								
California Water Resources Development Bond Fund		14	24,288	400,564	743,655	2,954,529	5,527,277	829,190
All other funds	318,959	52,184	225,171	-1,311	118	2,746	387,830	1,058,921
Subtotal	318,959	52,198	249,459	399,253	743,773	2,957,275	5,915,107	1,888,111
<b>TOTAL</b>	<b>4,109,239</b>	<b>1,833,970</b>	<b>5,356,173</b>	<b>3,763,853</b>	<b>4,486,898</b>	<b>9,036,495</b>	<b>9,560,034</b>	<b>3,044,216</b>
<b>SPECIFIC COSTS OF ACQUIRING LAND FOR RECREATION DEVELOPMENT: (c)</b>								
<u>Frenchman Dam and Lake</u>								
California Water Resources Development Bond Fund		-154	-310	696	642	1,504	521	162
All other funds	48,305	885	452	1				223
Subtotal	48,305	731	142	697	642	1,504	521	385
<u>Grizzly Valley Dam and Lake Davis</u>								
California Water Resources Development Bond Fund			519	27,998	4,147	19,086	164,798	-13,724
All other funds	1,318	1,059	2,866	3				
Subtotal	1,318	1,059	3,385	28,001	4,147	19,086	164,798	-13,724
<u>Oroville Division</u>								
California Water Resources Development Bond Fund		-36,295	55,338	232,053	551,385	1,038,216	34,027	-1,489
All other funds	66,138	100,982	99,248	-24,059	-4,549	-3,927	-34,911	80,622
Subtotal	66,138	64,687	154,586	207,994	546,836	1,034,289	-884	79,133
<u>Del Valle Dam and Lake Del Valle</u>								
California Water Resources Development Bond Fund			791	24,262	70,463	8,581	489,259	-74,659
All other funds	17,792	4,075	8,920	44	-852			-51,037
Subtotal	17,792	4,075	9,711	24,306	69,611	8,581	489,259	-125,696
<u>San Luis Dam and Reservoir and O'Neill Forebay</u>								
California Water Resources Development Bond Fund		-15,874	-518	-11,414	44,680	132,532	3,230	2,762
All other funds	22,842	70,581	20,210	-1,977	-1,817	85,653	-587	-214
Subtotal	21,876	54,707	19,692	-13,391	42,863	218,185	2,643	2,548
<u>California Aqueduct</u>								
California Water Resources Development Bond Fund		-32	-24,191	16,661	580,372	-4,942	-10,478	4,036
All other funds	70,849	12,061	28,203	-1,271	-614	-71	-80	7,110
Subtotal	70,817	11,449	4,012	15,390	579,758	-5,013	-10,558	11,146
<u>Castaic Dam and Lake</u>								
California Water Resources Development Bond Fund			603	29,708	398,203	483,501	887,353	9,469
All other funds	1,695	2,706	5,278	831			-75	-30,418
Subtotal	1,695	2,706	5,881	30,539	398,203	483,501	887,278	-20,949
<u>Cedar Springs Dam and Silverwood Lake</u>								
California Water Resources Development Bond Fund		4,591	141,608		15,012	92,455	56,153	-2,020
All other funds	22,687	22,231						-54,982
Subtotal	22,687	26,822	141,608		15,012	92,455	56,153	-57,002
<u>Perris Dam and Lake Perris</u>								
California Water Resources Development Bond Fund		-18,390	427,464	-27,972	-25,641	-13,930	20,849	492,711
All other funds	234,997							3,721,737
Subtotal	234,997	-18,390	427,464	-27,972	-25,641	-13,930	20,849	4,214,448
<u>Abbey Bridge Dam and Reservoir</u>								
California Water Resources Development Bond Fund					9			
All other funds	495	9,238	183	5				
Subtotal	495	9,238	183	5				
<b>TOTAL</b>	<b>486,120</b>	<b>157,084</b>	<b>766,664</b>	<b>265,569</b>	<b>1,631,440</b>	<b>1,838,658</b>	<b>1,610,059</b>	<b>4,090,289</b>
<b>TOTAL RECREATION AND ENHANCEMENT COSTS</b>								
California Water Resources Development Bond Fund	-6,718	-68,946	926,372	3,768,312	6,099,640	10,681,701	10,735,089	1,775,123
All other funds	4,602,077	2,060,000	5,196,465	261,110	18,698	193,452	435,004	5,359,382
<b>GRAND TOTAL</b>	<b>4,595,359</b>	<b>1,991,054</b>	<b>6,122,837</b>	<b>4,029,422</b>	<b>6,118,338</b>	<b>10,875,153</b>	<b>11,170,093</b>	<b>7,134,505</b>

Footnotes a-g are presented on pages 4 through 7.

**COSTS OF THE STATE WATER PROJECT<sup>(a)</sup>**  
**Response to Water Code Section 11912)**  
**dollars)**

BY CALENDAR YEAR						TOTAL DISBURSE- MENTS THRU 1974	Add: INTEREST ACCRUALS THRU 1974	TOTAL COSTS REPORTED THRU 1974	COMPARISON WITH COSTS PREVIOUSLY REPORTED	
1969	1970	1971	1972	1973	1974				THRU 1973	INCREASE
46	1,324	7,200	1,235			102,992	1,804	104,796	99,099	5,697
1,192	260	226	1,594	1,022	1,238	2,434,883		2,434,883	2,430,829	4,054
1,238	1,584	7,426	2,829	1,022	1,238	2,537,875	1,804	2,539,679	2,529,928	9,751
9,834	19,210	24,350	1,605			1,036,387	98,308	1,134,695	1,137,879	-3,184
207,410	5,003	3,027	2,081	1,511	1,890	3,944,079		3,944,079	3,945,208	-1,129
217,244	24,213	27,377	3,686	1,511	1,890	4,980,466	98,308	5,078,774	5,083,087	-4,313
23,498	5,951	9,609	1,662			3,831,301	399,707	4,231,008	4,220,015	10,993
157,199	62,211	738	2,605	24,227	45,646	575,475		575,475	523,916	51,559
180,697	68,162	10,347	4,267	24,227	45,646	4,406,776	399,707	4,806,483	4,743,931	62,552
77,292	90,429	21,962	22,643	-1,479	-885	6,678,095	878,372	7,556,467	7,807,985	-251,518
212,192	49,312	4,859	13,426	19,175	27,689	2,219,710		2,219,710	2,163,797	55,913
289,484	139,741	26,821	36,069	17,696	26,804	8,897,805	878,372	9,776,177	9,971,782	-195,605
26,294	7,812	7,742	4,649	-14	-35	5,859,416	1,724,437	7,583,853	7,600,180	-16,327
87,585	17,839	5,311	10,700	23,970	24,527	3,362,004		3,362,004	3,343,203	18,801
113,879	25,651	13,053	15,349	23,956	24,492	9,221,420	1,724,437	10,945,857	10,943,383	2,474
10,127	21,690	24,434	40,379			10,576,147	4,006,169	14,582,316	13,979,609	602,707
84,488	45,631	3,049	7,009	9,863	115,768	2,310,426		2,310,426	2,154,829	155,597
94,615	67,321	27,483	47,388	9,863	115,768	12,886,573	4,006,169	16,892,742	16,134,438	758,304
897,157	326,672	112,507	109,588	78,275	215,838	42,930,915	7,108,797	50,039,712	49,406,549	633,163
28	182	108				3,379	134	3,513	3,626	-113
74		7				49,947		49,947	51,934	-1,987
102	182	115				53,326	134	53,460	55,560	-2,100
324	625	343				204,116	15,084	219,200	217,624	1,576
324	625	343				5,246		5,246	8,526	-3,280
						209,362	15,084	224,446	226,150	-1,704
-6,886	4,160	10,135	-509	-29	-37	1,880,069	608,162	2,488,231	2,480,420	7,811
34,685	4,927	4,437	3,347	1,451	943	329,334		329,334	302,306	27,028
27,799	9,087	14,572	2,838	1,422	906	2,209,403	608,162	2,817,565	2,782,726	34,839
-1,490	1,630	601	39			519,477	169,710	689,187	692,732	-3,545
960	189	158	758	2,018	811	-16,164		-16,164	-46,540	30,376
-530	1,819	759	797	2,018	811	503,313	169,710	673,023	646,192	26,831
576	43,806	1,143	115,997			315,954	35,709	351,663	337,859	13,804
623	-150	258	-42,456	18,844	65	171,875		171,875	91,038	80,837
1,199	43,656	1,401	73,541	18,844	65	487,829	35,709	523,538	428,897	94,641
14,747	468,346	457	-160,306	-8,966		875,092	365,101	1,240,193	1,150,446	89,747
11,988	1,080	1,403	146,771	44,870	5,464	327,763		327,763	341,886	-14,123
26,735	469,426	1,860	-13,535	35,904	5,464	1,202,855	365,101	1,567,956	1,492,332	75,624
-44,600	22,812	17,483	32,058	-104	-95	1,836,391	768,341	2,604,732	2,464,808	139,924
7,038	1,028	7,810	23,411	17,532	-4,686	32,150		32,150	24,788	7,362
-37,562	23,840	25,293	55,469	17,428	-4,781	1,868,541	768,341	2,636,882	2,489,596	147,286
52,403	33,967	-4,821	7,720			397,068	183,407	580,475	420,341	160,134
586,566	19,037	-31,520	14,241	9,433	18,807	606,500		606,500	535,391	71,109
638,969	53,004	-36,341	21,961	9,433	18,807	1,003,568	183,407	1,186,975	955,732	231,243
-1,968	4,195	2,600	-1,300			858,618	390,946	1,249,564	1,197,197	52,367
-317,868				130	-1,300	3,637,696		3,637,696	3,470,805	166,891
-319,836	4,195	2,600	-1,300	130	-1,300	4,496,314	390,946	4,887,260	4,668,002	219,258
						9		9		9
						9,921		9,921		9,921
						9,930		9,930		9,930
337,200	605,834	10,602	139,771	85,179	19,972	12,044,441	2,536,594	14,581,035	13,745,187	835,848
160,225	726,139	123,346	65,872	-10,592	-1,052	34,974,511	9,645,391	44,619,902	43,809,820	810,082
1,074,132	206,367	-237	183,487	174,046	236,862	20,000,845		20,000,845	19,341,916	658,929
1,234,357	932,506	123,109	249,359	163,454	235,810	54,975,356	9,645,391 <sup>(d)</sup>	64,620,747 <sup>(e)</sup>	63,151,736 <sup>(f)</sup>	1,469,011 <sup>(g)</sup>

TABLE 2: CALCULATION OF INTEREST ACCRUALS ON CALIFORNIA

(in dollars)

YEAR	ITEM	JOINT CAPITAL COSTS ALLOCATED TO RECREATION AND ENHANCEMENT						
		Frenchman Dam and Lake	Antelope Dam and Lake	Grizzly Valley Dam and Lake Davis	California Aqueduct Delta to Dos Amigos P. P.	Oroville Division	Del Valle Dam and Lake Del Valle	Total
1952-70	a. Disbursements							
	1. Calif. Water Resources Development Bond Fund	94,557	1,010,432	3,820,030	6,635,854	5,847,074	10,511,334	27,919,281
	2. All other funds	2,430,803	3,935,570	503,259	2,154,561	3,297,496	2,174,737	14,495,426
	b. Reimbursement 1967 thru 1970 applied to:							
1971	1. Calif. Water Resources Development Bond Fund	94,977	1,088,661	4,211,515	7,320,912			12,716,065
	2. All other funds	2,430,543	3,930,567	440,048	196,356			6,997,514
	c. Interest accrued to end of 1970	1,773	97,869	399,527	874,145	1,342,744	1,953,970	4,670,028
	d. Beginning-of-year balance to be reimbursed:							
1972	1. Calif. Water Resources Development Bond Fund	1,353	19,640	8,042	189,087	7,189,818	12,465,304	19,873,244
	2. All other funds	260	5,003	62,211	1,958,205	3,297,496	2,174,737	7,497,912
	e. Disbursement during year:							
	1. Calif. Water Resources Development Bond Fund	7,200	24,350	9,609	21,962	7,742	24,434	95,297
1973	2. All other funds	226	3,027	738	4,859	5,311	3,049	17,210
	f. Reimbursements during year applied to:							
	1. Calif. Water Resources Development Bond Fund	8,553	43,990	17,651	211,049	2,256,874		2,538,117
	2. All other funds	486	8,030	62,949	1,963,064			2,034,529
1974	g. End-of-year balance, without interest for:							
	1. Calif. Water Resources Development Bond Fund					4,940,686	12,489,738	17,430,424
	2. All other funds					3,302,807	2,177,786	5,480,593
	h. Interest accrual on average balance of d(1) & g(1)	30	430	176	4,135	265,294	545,767	815,832
1975	i. Beginning-of-year balance to be reimbursed:							
	1. Calif. Water Resources Development Bond Fund	30	430	176	4,135	5,205,980	13,035,505	18,246,256
	2. All other funds					3,302,807	2,177,786	5,480,593
	j. Disbursements during year:							
1976	1. Calif. Water Resources Development Bond Fund	1,235	1,605	1,662	22,643	4,649	40,379	72,173
	2. All other funds	1,594	2,081	2,605	13,426	10,700	7,009	37,415
	k. Reimbursements during year applied to:							
	1. Calif. Water Resources Development Bond Fund	1,265	2,035	1,838	26,778	5,210,629		5,242,545
1977	2. All other funds	1,594	2,081	2,605	13,426	1,898,363		1,918,069
	l. End-of-year balance, without interest for:							
	1. Calif. Water Resources Development Bond Fund						13,075,884	13,075,884
	2. All other funds					1,415,144	2,184,795	3,599,939
1978	m. Interest accrual on average balance of i(1) & l(1)	1	9	4	90	113,855	571,056	685,015
	n. Beginning-of-year balance to be reimbursed:							
	1. Calif. Water Resources Development Bond Fund	1	9	4	90	113,855	13,646,940	13,760,899
	2. All other funds					1,415,144	2,184,795	3,599,939
1979	o. Disbursements during year:							
	1. Calif. Water Resources Development Bond Fund	1,022	1,511	24,227	-1,479	-14		-1,493
	2. All other funds				19,175	23,970	9,863	79,768
	p. Reimbursements during year applied to:							
1980	1. Calif. Water Resources Development Bond Fund	1	9	4	-1,389	113,841	2,671,722	2,784,188
	2. All other funds	1,022	1,511	24,227	19,175	1,439,114		1,485,049
	q. End-of-year balance, without interest for:							
	1. Calif. Water Resources Development Bond Fund						10,975,218	10,975,218
1981	2. All other funds						2,194,658	2,194,658
	r. Interest accrual on average balance of n(1) & q(1)				2	2,490	538,487	540,979
	s. Beginning-of-year balance to be reimbursed:							
	1. Calif. Water Resources Development Bond Fund				2	2,490	11,513,705	11,516,197
1982	2. All other funds						2,194,658	2,194,658
	t. Disbursements during year:							
	1. Calif. Water Resources Development Bond Fund	1,238	1,890	45,646	-885	-35		-920
	2. All other funds				27,689	24,527	115,768	216,758
1983	u. Reimbursements during year applied to:							
	1. Calif. Water Resources Development Bond Fund				-883	2,455	4,879,747	4,881,319
	2. All other funds	1,238	1,890	45,646	27,689	24,527		100,990
	v. End-of-year balance, without interest for:							
1984	1. Calif. Water Resources Development Bond Fund						6,633,958	6,633,958
	2. All other funds						2,310,426	2,310,426
	w. Interest accrual on average balance of s(1) & v(1)					54	396,889	396,943
	x. SUMMARY: Beginning of 1975 balance to be reimbursed:							
1974 thru 1974	1. Calif. Water Resources Development Bond Fund					54	7,030,847	7,030,901
	2. All other funds						2,310,426	2,310,426
	Total					54	9,341,273	9,341,327
	y. Disbursements, 1952 thru 1974:							
1974	1. Calif. Water Resources Development Bond Fund	102,992	1,036,387	3,831,301	6,678,095	5,859,416	10,576,147	28,084,538
	2. All other funds	2,434,883	3,944,079	575,475	2,219,710	3,362,004	2,310,426	14,846,577
	Total	2,537,875	4,980,466	4,406,776	8,897,805	9,221,420	12,886,573	42,930,915
	z. Reimbursements applied thru 1974 to:							
1974	1. Calif. Water Resources Development Bond Fund	104,796	1,134,695	4,231,008	7,556,467	7,583,799	7,551,469	28,162,234
	2. All other funds	2,434,883	3,944,079	575,475	2,219,710	3,362,004		12,536,151
	Total	2,539,679	5,078,774	4,806,483	9,776,177	10,945,803	7,551,469	40,698,385
	TOTAL INTEREST ACCRUALS, 1952 THRU 1974	1,804	98,308	399,707	878,372	1,724,437	4,006,169	7,108,797

# WATER RESOURCES DEVELOPMENT BOND FUND DISBURSEMENTS

@ 4.371% per annum)

COSTS OF ACQUIRING LAND FOR RECREATION DEVELOPMENT											GRAND TOTAL
Frenchman Dam and Lake	Grizzly Valley Dam and Lake Davis	Abbey Bridge Dam and Reservoir	Oroville Division	Del Valle Dam and Lake Del Valle	San Luis Dam and Reservoir & O'Neill Forebay	California Aqueduct	Castaic Dam and Lake	Cedar Springs Dam and Silverwood Lake	Perris Dam and Lake Perris	Total	
3,271 49,940	203,773 5,246	9 9,921	1,870,509 319,156	518,837 -19,909	198,814 195,164	1,043,907 129,255	1,787,049 -11,917	394,169 595,539	857,318 3,638,866	6,877,656 4,911,261	34,796,937 19,406,687
3,215 49,940	218,090 5,246	9 9,921								221,314 65,107	12,937,379 7,062,621
130	15,068		451,928	99,343	30,580	159,081	360,733	92,428	194,261	1,403,552	6,073,580
186	751		2,322,437 319,156	618,180 -19,909	229,394 195,164	1,202,988 129,255	2,147,782 -11,917	486,597 595,539	1,051,579 3,638,866	8,059,894 4,846,154	27,933,138 12,344,066
108 7	343		10,135 4,437	601 158	1,143 258	457 1,403	17,483 7,810	-4,821 -31,520	2,600	28,049 -17,447	123,346 -237
294 7	1,094				230,537 195,422					231,925 195,429	2,770,042 2,229,958
			2,332,572 323,593	618,781 -19,751		1,203,445 130,658	2,165,265 -4,107	481,776 564,019	1,054,179 3,638,866	7,856,018 4,633,278	25,286,442 10,113,871
4	16		101,805	27,052	5,017	52,629	94,326	21,178	46,053	348,080	1,163,912
4	16		2,434,377 323,593	645,833 -19,751	5,017	1,256,074 130,658	2,259,591 -4,107	502,954 564,019	1,100,232 3,638,866	8,204,098 4,633,278	26,450,354 10,113,871
			-509 3,347	39 758	115,997 -42,456	-160,306 146,771	32,058 23,411	7,720 14,241	-1,300	-6,301 146,072	65,872 183,487
4	16		2,433,868 326,940		121,014 -42,456					2,554,902 284,484	7,797,447 2,202,553
				645,872 -18,993		1,095,768 277,429	2,291,649 19,304	510,674 578,260	1,098,932 3,638,866	5,642,895 4,494,866	18,718,779 8,094,805
			53,420	28,250	110	51,435	99,536	22,168	48,096	302,835	987,850
			53,240	674,122 -18,993	110	1,147,203 277,429	2,391,185 19,304	532,842 578,260	1,147,028 3,638,866	5,945,730 4,494,866	19,706,629 8,094,805
			-29 1,451	2,018	18,844	-8,966 44,870	-104 17,532	9,433	130	-9,099 94,278	-10,592 174,046
			53,211 1,451	674,122 -16,975	110 18,844					727,443 3,320	3,511,631 1,488,569
						1,138,237 322,299	2,391,081 36,836	532,842 587,693	1,147,028 3,638,996	5,209,188 4,585,824	16,184,406 6,780,482
			1,164	14,743	2	49,983	104,588	23,307	50,171	243,958	784,937
			1,164	14,743	2	1,188,220 322,299	2,495,669 36,836	556,149 587,693	1,197,199 3,638,996	5,453,146 4,585,824	16,969,343 6,780,482
			-37 943	811	65	5,464	-95 -4,686	18,807	-1,300	-132 20,104	-1,052 236,862
			1,127 943	14,743 811	2 65					15,872 1,819	4,897,191 102,809
						1,188,220 327,763	2,495,574 32,150	556,149 606,500	1,197,199 3,637,696	5,437,142 4,604,109	12,071,100 6,914,535
			25	322		51,973	109,158	24,326	52,365	238,169	635,112
			25	322		1,240,193 327,763	2,604,732 32,150	580,475 606,500	1,249,564 3,637,696	5,675,311 4,604,109	12,706,212 6,914,535
			25	322		1,567,956	2,636,882	1,186,975	4,887,260	10,279,420	19,620,747
3,379 49,947 53,326	204,116 5,246 209,362	9 9,921 9,930	1,880,069 329,334 2,209,403	519,477 -16,164 503,313	315,954 171,875 487,829	875,092 327,763 1,202,855	1,836,391 32,150 1,868,541	397,068 606,500 1,003,568	858,618 3,637,696 4,496,314	6,890,173 5,154,268 12,044,441	34,974,511 20,000,845 54,975,356
3,513 49,947 53,460	219,200 5,246 224,446	9 9,921 9,930	2,488,206 329,334 2,817,540	688,865 -16,164 672,701	351,663 171,875 523,538					3,751,456 550,159 4,301,615	31,913,690 13,086,310 45,000,000
134	15,084		608,162	169,710	35,709	365,101	768,341	183,407	390,946	2,536,594	9,645,391

## Summary of Allocation Percentages

The Department annually determines water contractor charges for the State Water Project based on allocations of costs among purposes of those facilities which are jointly used for more than one purpose. These allocations utilize the percentages previously reported to and approved by the Legislature, as well as preliminary estimates for facilities which have not been reported. These percentages are summarized in the table below.

The facilities which remain to be reported are two reservoirs in the Upper Feather River area, the Delta Facilities, and the transportation features of the California Aqueduct. Upon completion of project formulation for the Delta Facilities, costs may be allocated to purposes other than those shown in the table. The allocation for the Delta Facilities is scheduled to be reported in 1982 as shown in the Table on page 5.

SUMMARY OF COST ALLOCATION PERCENTAGES  
(in percent of joint costs of the respective facilities)

Facilities of the State Water Project	Reimbursable Purposes			Nonreimbursable Purposes <sup>(a)</sup>			Total
	Water	Power	Total	Flood	Recreation and Fish and Wildlife	Total	
	Supply	Generation		Control	Enhancement		

### Capital Costs of Features Jointly Used

#### Project Conservation Facilities

Frenchman Dam and Lake <sup>(b)</sup>	21.5	0	21.5	0	78.5	78.5	100.0
Antelope Dam and Lake <sup>(b)</sup>	0	0	0	0	100.0	100.0	100.0
Grizzly Valley Dam and Lake Davis <sup>(b)</sup>	5.1	0	5.1	0	94.9	94.9	100.0
Abbey Bridge Dam and reservoir <sup>(c)</sup>	0	0	0	0	100.0	100.0	100.0
Dixie Refuge Dam and reservoir <sup>(c)</sup>	0	0	0	0	100.0	100.0	100.0
Oroville Dam and reservoir <sup>(d)</sup>	61.3	35.8	97.1	0	2.9	2.9	100.0
California Aqueduct <sup>(b)</sup>	96.5	0	96.5	0	3.5	3.5	100.0
Delta Facilities <sup>(c)</sup>	86.0	0	86.0	0	14.0	14.0	100.0

#### Project Transportation Facilities

California Aqueduct, excluding Coastal Branch <sup>(c,e)</sup>	97.0	0	97.0	0	3.0	3.0	100.0
South Bay Aqueduct:							
Del Valle Dam and reservoir <sup>(b)</sup>	25.2	0	25.2	26.8	48.0	74.8	100.0
North Bay Aqueduct <sup>(c)</sup>	100.0	0	100.0	0	0	0	100.0

a) Additional purposes may be identified after project formulation in the Delta is completed.

b) Final percentages.

c) Illustrative percentages only, assumed for current project financial and repayment analyses.

d) Percentages are applicable to Capital Costs of Features Jointly Used minus Federal Flood Control Payments.

e) A final allocation of facilities from Delta to Dos Amigos Pumping Plant has been made. 3.5 percent of these costs are allocated to recreation and fish and wildlife enhancement and are reported for reimbursement under AB 12. However, until the remainder of the aqueduct is finally reported the percentage for billing purposes is as shown.

Note: Percentages shown are those applicable to the costs of the facility as accounted for by the State, or, in the case of federal-state joint-use facilities (San Luis and Delta Facilities), only the State's share of the total cost.

COMMENTS  
BY  
THE DEPARTMENT OF NAVIGATION AND OCEAN DEVELOPMENT,  
THE DEPARTMENT OF PARKS AND RECREATION,  
AND THE DEPARTMENT OF FISH AND GAME

## Memorandum

To : Honorable Ronald Robie, Director  
Department of Water Resources  
Resources Building, Room 1115-1

Date : April 25, 1975

Subject: Cost Allocation to  
Recreation, Fish and  
Wildlife Enhancement,  
State Water Project

From : Department of Navigation and Ocean Development

As required by Section 11912 of the California Water Code, the Department of Navigation and Ocean Development has reviewed the report which presents Water Project cost allocations to Recreation and Fish and Wildlife Enhancement. The Department has no comments on the draft of Bulletin 132-75.



FRANK TORKELOSON  
Acting Director



## Memorandum

: Honorable Ronald D. Robie, Director  
Department of Water Resources

Date : April 25, 1975


Subject: Cost Allocation to the  
Recreation and Fish and  
Wildlife Enhancement -  
State Water Project

om : Department of Parks and Recreation

Pursuant to the Water Code, Section 11912, as amended by the California Statute of 1966, Chapter 27, you requested our written comments on the review draft of the California Water Project in 1975, Appendix D to Bulletin No. 132-75, Cost of Recreation and Fish and Wildlife Enhancement.

Our staff has reviewed and concurred with recreation related items entered in this year's revision.

Thank you for the opportunity to review your draft.

  
Herbert Rhodes  
Director

**Memorandum**

To : Honorable Ronald B. Robie, Director  
Department of Water Resources

Date: April 25, 1975

From : Department of Fish and Game

Subject: WP-State of California, Department of Water Resources - State Water Project -  
1975 Cost Allocations to Recreation and Fish and Wildlife Enhancement

Pursuant to Water Code Section 11912, as amended by California Statutes of 1966, Chapter 27, you requested our written comments on State Water Project joint costs allocated to recreation and fish and wildlife enhancement, as reported on the review draft of Appendix D to Bulletin No. 132-75.

Appendix D presents new costs allocated to recreation, fish and wildlife enhancement of \$1,469,000. Half of this amount is due to interest on previous expenditures; \$311,000 are for additional enhancement expenditures; and \$428,000 are for adjustments. Half of the adjustment figures (\$210,000) is due to a revision in the method of assigning cost to acquisition. This new procedure appears to be an improvement and an equitable method in assigning these costs. We certainly hope that cost reductions to recreation land acquisition will be forthcoming in future years when warranted under this new procedure.

The Department of Fish and Game supports that portion of this allocation which is within our purview to evaluate. We are concerned this year with the shortness of time provided for this review. We feel every effort should be made in the future to provide us more time for review.



Director